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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/846,762	(	05/01/2001	Robert Shea	31910.000014 5008		
23387	7590	10/11/2002				
Stephen B. Salai, Esq. Harter, Secrest & Emery LLP 1600 Bausch & Lomb Place				EXAMINER		
				JIMENEZ, MARC QUEMUEL		
Rochester, N	Y 14604	-2711		ART UNIT PAPER NUMBER		
				3726		
			DATE MAILED: 10/11/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

				SM.					
	Application No.		Applicant(s)						
•1	09/846,762	_	SHEA ET AL.						
Office Action Summary	Examiner		Art Unit						
	Marc Jimenez		3726						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status									
1) Responsive to communication(s) filed on 19 J	<i>luly 2002</i> .								
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	is action is non-f	inal.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims		ŕ							
4) $\boxtimes$ Claim(s) <u>1-25</u> is/are pending in the application	ı <b>.</b>								
4a) Of the above claim(s) is/are withdraw	wn from consider	ation.							
5) Claim(s) is/are allowed.									
6)☐ Claim(s) is/are rejected.									
7) Claim(s) is/are objected to.									
8) Claim(s) <u>1-25</u> are subject to restriction and/or e	election requirem	ient.							
Application Papers									
	9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign	n priority under 3	EIISC 8 110/a	) (d) or (f)						
a) All b) Some * c) None of:	i priority under 3	5 0.5.C. § 119(a	)-(u) or (i).						
1.☐ Certified copies of the priority documents	s have been res	nivod							
<u> </u>			an No						
_ ' ' '				Stone					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)		(PTO-413) Paper No Patent Application (PT						

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#### DETAILED ACTION

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-5, 9, 15, 16, 19-22, 24, and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Krupp (4,385,683).

Krupp teaches a roller for a roller assembly, the roller comprising: a shaft 12, a first tire 20 mounted relative to the shaft 12, the first tire 20 including: a compliant (col. 3, line 53) core 18 affixed relative to the shaft 12 for rotation with the shaft 12, and a non-compliant layer 14 connected to the core 18 for rotation with the core 18. The limitation that the shaft has a linear variance less than 0.03 inches per linear foot does not further the structural limitations of the roller and therefore has not been given patentable weight. Note that Krupp teaches that the compliant core 18 comprises an open cell structure (col. 3, lines 9-10, ie. "foam") and a second tire on the shaft. It is inherent that the non-compliant layer of Krupp has a durometer greater than 35 Shore A since it is made of either ceramic, glass, or other porcelain. The surface of the non-compliant layer has a coefficient of friction enhancing surface.

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3. Claims 1-6, 8-11, and 20-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Okumura et al. (4,517,719).

Okumura et al. teach a shaft 1, a first tire 11 mounted relative to the shaft 1, the first tire 11 including: a compliant/cellular/open cell structure core 4 affixed relative to the shaft 1 for rotation with the shaft 1, and a non-compliant layer 8 made of metal tube (col. 4, line 18) connected to the core 4 for rotation with the core 4. Note that the shaft could be made of plastic (col. 4, line 18, ie. "synthetic resin"). The cellular structure 4 is made of polyurethane (col. 4, line 32). Since the non-compliant layer 8 is made of a metal tube, it has the claimed durometer.

4. Claims 1, 3-10, 13, and 20-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Blackwood et al. (4,440,295).

Blackwood et al. teach a shaft (abstract, line 7), a first tire 1 mounted relative to the shaft, the first tire including: a compliant core 2 affixed relative to the shaft, for rotation with the shaft, and a non-compliant layer 3 connected to the core 2 for rotation with the core 2. The non-compliant layer has a durometer greater than 35 and less than 60 Shore A (col. 2, line 24).

#### Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 2, 6, 7, 11, 13, 17, 18, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krupp.

With respect to Claim 2, Krupp teaches the invention cited above with the exception of the shaft comprising a plastic shaft.

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have made the shaft of Krupp with plastic, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416. Also, official notice is taken that it is well known in the art to use plastic shafts.

With respect to Claim 6, Krupp teaches the invention cited above with the exception of the cellular structure comprising polyurethane.

At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to use a polyurethane as the cellular structure because applicant has not disclosed that using polyurethane provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected applicant's invention to perform equally well with either the cellular structure taught by Krupp or the claimed polyurethane structure because both cellular structures perform the same function of providing a compliant layer equally well considering the desired amount of compression properties required.

With respect to Claims 7, 11, 13, 17, 18, and 23, Krupp teaches the invention cited above with the exception of the non-compliant layer comprising a layer of elastomeric material, a metal tube, a plastic tube, a layer of elastomeric layer, or a layer of synthetic rubber.

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At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to use either a layer of elastomeric material, a metal tube, a plastic tube, a layer of elastomeric layer, or a layer of synthetic rubber for the non-compliant layer, because applicant has not disclosed that using either a layer of elastomeric material, a metal tube, a plastic tube, a layer of elastomeric layer, or a layer of synthetic rubber for the non-compliant layer provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected applicant's invention to perform equally well with either the ceramic non-compliant layer taught by Krupp or the claimed either a layer of elastomeric material, a metal tube, a plastic tube, a layer of elastomeric layer, or a layer of synthetic rubber for the non-compliant layer because either materials perform the same function of providing a non-compliant layer equally well.

7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Krupp in view of Hiroya (JP 05-035110).

Krupp teaches the invention cited above with the exception of the cellular structure comprising polyurethane.

Hiroya teaches a cellular structure 2 comprising polyurethane.

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Krupp with a polyurethane cellular structure, in light of the teachings of Hiroya, in order to provide a cellular structure of low density.

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8. Claims 7, 13, 17, 18, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krupp in view of Eiji (JP 08169573).

Krupp teaches the invention cited above with the exception of the non-compliant layer comprising a layer of elastomeric material/plastic tube/synthetic rubber.

Eiji teaches a layer of elastomeric material/plastic tube/synthetic rubber 3b over a foam layer 3a.

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Krupp with a layer of elastomeric material/plastic tube/synthetic rubber for the non-compliant layer, in light of the teachings of Eiji, in order to provide a layer that provides a better gripping surface.

9. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okumura et al. in view of Sawa et al. (5,553,845).

Okumura et al. teach the invention cited above with the exception of having a coefficient of friction enhancing material on the tube.

Sawa et al. teach a coefficient of friction (abstract, lines 1-2) enhancing material 7 on a tube 4.

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Okumura et al. with a coefficient of friction enhancing material on the tube, in light of the teachings of Sawa et al., in order to provide a surface which has good friction and is not affected by changes in temperature or humidity (as suggested by Sawa et al., abstract, lines 1-3).

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10. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Blackwood et al. in view of Sawa et al.

Blackwood et al. teach the invention cited above with the exception of having a coefficient of friction enhancing material on the tube.

Sawa et al. teach a coefficient of friction (abstract, lines 1-2) enhancing material 7 on a tube 4.

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Blackwood et al. with a coefficient of friction enhancing material on the tube, in light of the teachings of Sawa et al., in order to provide a surface which has good friction and is not affected by changes in temperature or humidity (as suggested by Sawa et al., abstract, lines 1-3).

## Response to Arguments

- 11. Applicant's arguments filed 7/19/2002 have been fully considered but they are not persuasive.
- 12. In response to applicant's argument that Krupp does not teach a compliant core, it is noted that Krupp clearly teaches a compliant core 18. Krupp describes in col. 3, lines 19-53, that the sleeve (core) "exhibit from 10% compression at the high side of the tolerance level up to 25% compression at the low side..." and "the blowing agent into the ABS sleeve (core) prior to its extrusion will create the optimum blend of compressibility,...". The definition is compliant is "the ability to yield elastically when a force is applied", therefore, "compression" and "compressibility" is clearly compliant.

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13. Applicant argues that the core of Okamura et al. is not compliant. However, the core 4 of Okamura et al. is made of an open cellular structure foam that is made of polyurethane (col. 4, line 32) which is the same material which the claimed invention is made of. Therefore, the core of Okamura et al. is clearly "compliant". Furthermore, it is noted that applicant even suggests that all materials are more or less compliant (see page 6, lines 20-21 of applicant's specification). The claims do not preclude the core material of Okamura et al. from being compliant.

- 14. Applicant argues that Blackwood et al. do not teach a compliant core. However, the core 2 is made of a foamed polyurethane in the "elastomer range" (col. 5, lines 16-17). Therefore, the core is clearly compliant. Furthermore, it is noted that applicant even suggests that all materials are more or less compliant (see page 6, lines 20-21 of applicant's specification).
- 15. Applicant's arguments with respect to the rejections under 35 U.S.C. 103(a) fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.
- 16. The official notice rejection applied in paragraph number "9." in the office action has not been properly rebutted. Therefore, the official notice is taken as admitted prior art. Furthermore, applicant has not rebutted the design choice rejections applied under 35 U.S.C. 103(a) and the examiner maintains these rejections.

#### Conclusion

17. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

# Interviews After Final

18. Applicant note that an interview after a final rejection will not be granted unless the intended purpose and content of the interview is presented briefly, in writing (the agenda of the interview must be in writing) to clarify issues for appeal requiring only nominal further consideration. Interviews merely to restate arguments of record or to discuss new limitations will be denied. See MPEP 714.13 and 713.09.

## **Contact Information**

19. Telephone inquiries regarding the status of applications or other general questions, by persons entitled to the information, should be directed to the group clerical personnel. In as much as the official records and applications are located in the clerical section of the examining

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groups, the clerical personnel can readily provide status information. M.P.E.P. 203.08. The

Group clerical receptionist number is (703) 308-1148.

If in receiving this Office Action it is apparent to applicant that certain documents are

missing, e.g., copies of references cited, form PTO-1449, form PTO-892, etc., requests for copies

of such papers or other general questions should be directed to Tech Center 3700 Customer

Service at (703) 306-5648, or fax (703) 872-9301 or by email to

CustomerService3700@uspto.gov.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marc Jimenez whose telephone number is 703-306-5965. The

examiner can normally be reached on Monday-Thursday and the second Friday of the bi-

week, between 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Greg Vidovich can be reached on 703-308-1513. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9302 for regular

communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1148.

Other helpful telephone numbers are listed for applicant's benefit.

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MJ

October 9, 2002

BREGORY M. VIDOVICH